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PARTICIPATION OF THE MOSCOW INSTITUTE OF FINE CHEMICAL TECHNOLOGY IN PHARMACEUTICAL PRODUCTION

Prof P. Zubov
Director of the Institute

The Institute of Fine Chemical Technology imeni M. V. Lomonosov cooperates closely with the pharmaceutical industry in carrying out theoretical and experimental investigations, raising the professional level of engineering and technical personnel employed in the industry (by giving lectures for their benefit, etc.), and by doing consulting work for various branches of the industry on theoretical as well as practical questions. As far as new developments in the pharmaceutical field are concerned, the following activities of the institute deserve attention.

Under the direction of Prof I. N. Nazarov, Corresponding Member, Academy of Sciences USSR, and Laureate of a Stalin Prize, a new, very effective anesthetic /Promedol; see Vestnik Akademii Nauk SSSR, Vol XXII, No 2, 1952, p 115./ was developed which is preferable in many respects to analogous drugs already in existence. The Institute of Organic Chemistry, Academy of Sciences USSR, the Institute of Fine Chemical Technology imeni M. V. Lomonosov, the All-Union Scientific Research Chemicopharmaceutical Institute imeni S. Ordzhonikidze, and a number of therapeutic institutions of the Ministry of Public Health, USSR, participated in work done in that connection.

A group of workers at the Institute of Fine Chemical Technology developed /synthetic/ USSR pilocarpine under the direction of Prof N. A. Preobrazhenskiy, Laureate of a Stalin Prize. Pilocarpine is the principal remedy for glaucoma. In cooperation with workers in the industry, a technological process for its production is being developed.

Prof Preobrazhenskiy has also accomplished the synthesis of emetine, which is at present the only effective remedy for amebic dysentery. For his work on alkaloids, this scientist received a Stalin First Prize in 1952.

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At the alkaloid plant, students of the Institute of Fine Technology rendered active aid in introducing Engineer F. Kovalev's methods. They assisted in introducing measures for the improvement of labor efficiency at that plant, particularly in the operation of multiple units of equipment by Stakhanovites. A change to hourly schedules was also made, and this likewise applies to the Plant imeni Semashko.

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